



New Product EsCom[®]250

*You're
the Artist*





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*You're
the Artist*



EsCom[®] 250

Light-cured restorative hybrid composite resin



You're
the Artist

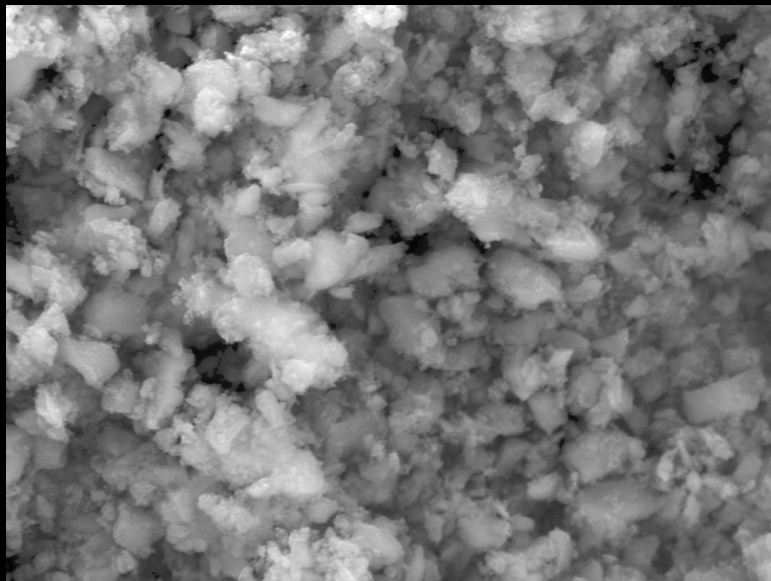


Product Description

Indication for Use

Physical Properties

EsCom[®] 250



x10,000

1µm INURF
15.0kV LED

1/8/2018
WD 10.0mm

EsCom[®] 250 is an esthetic, light-cured hybrid composite for use in both posterior and anterior restorations.

EsCom[®] 250 offers 13 shades including opaque, translucent and gingival shade which makes natural teeth.

Product Description

Indication for Use

Physical Properties

01

Low Polymerization Shrinkage

Less microleakage



02

Apply Zirconia Filler

Enhanced compressive strength



03

Best handling ever

Control the monomer / filler combination



04

Outstanding Esthetics

Transparency similar to natural teeth



05

Add gingival and D2 shade

Various applications



Product Description

Indication for Use

Physical Properties

Excellent Esthetics

- 1)Color adaptability for natural teeth**
- 2)Minimum color change between before and after curing**
- 3)Smooth surface**
- *Good handling property (not sticky)**

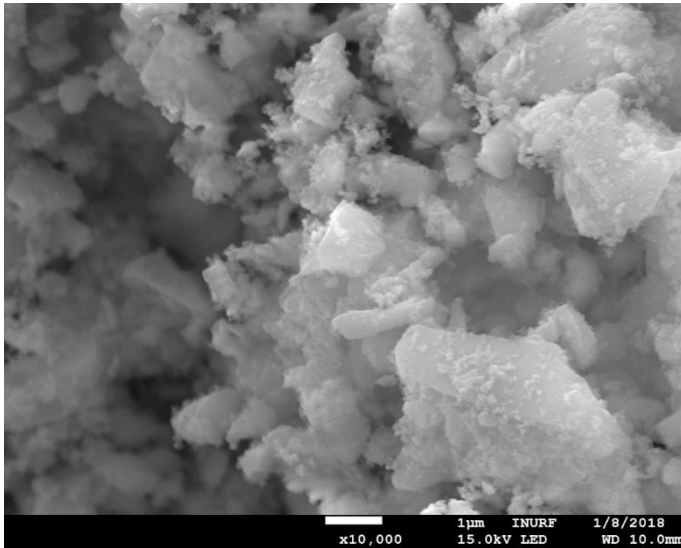
Excellent Physical Properties

- 1)Sufficient compressive strength and Low shrinkage of light curing**
- 2)Excellent wear property**
 - +Durable for abrasion**
 - +Non-damaging for opposite teeth**

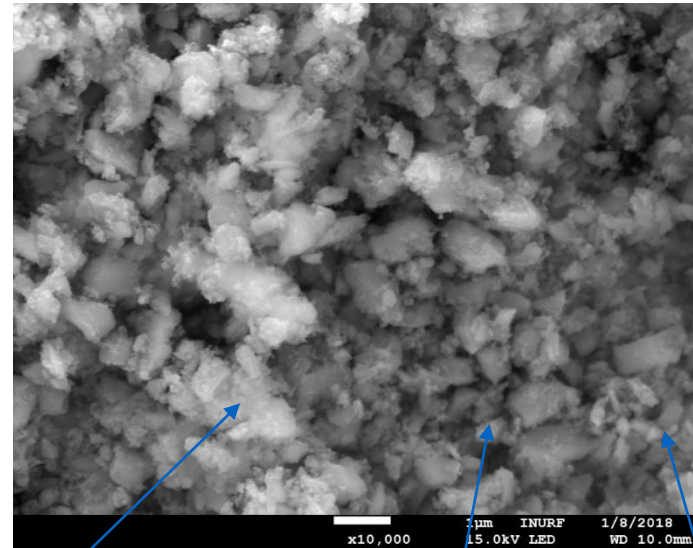


- Direct anterior and posterior restorations
- Core build-ups
- Blocking out undercuts
- Repair of composite and ceramic veneers
- Splinting mobile teeth

► **Compared with EsCom100 and EsCom250 – FE-SEM**



EsCom100



EsCom250

Barium Filler 1200nm

Barium Filler 700nm

Wear Resistance

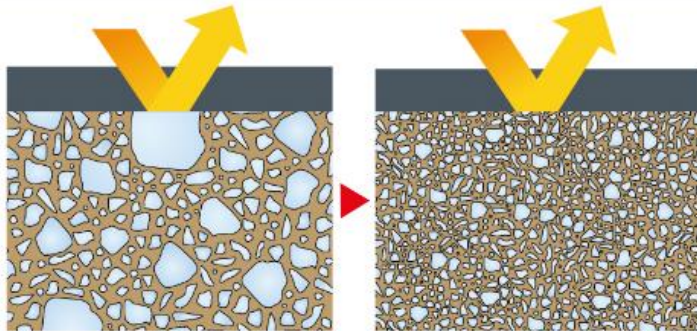
Because nano fillers disperse uniformly, asperity rate is very low. Therefore the asperity does not interrupt the opposing tooth moving.

Escom100

Escom250

After polishing

After polishing

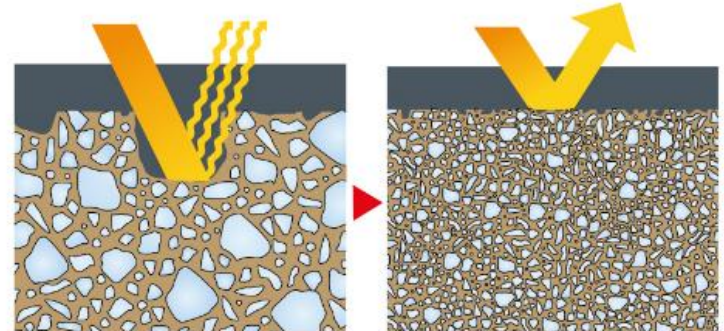


Escom100

Escom250

After wearing

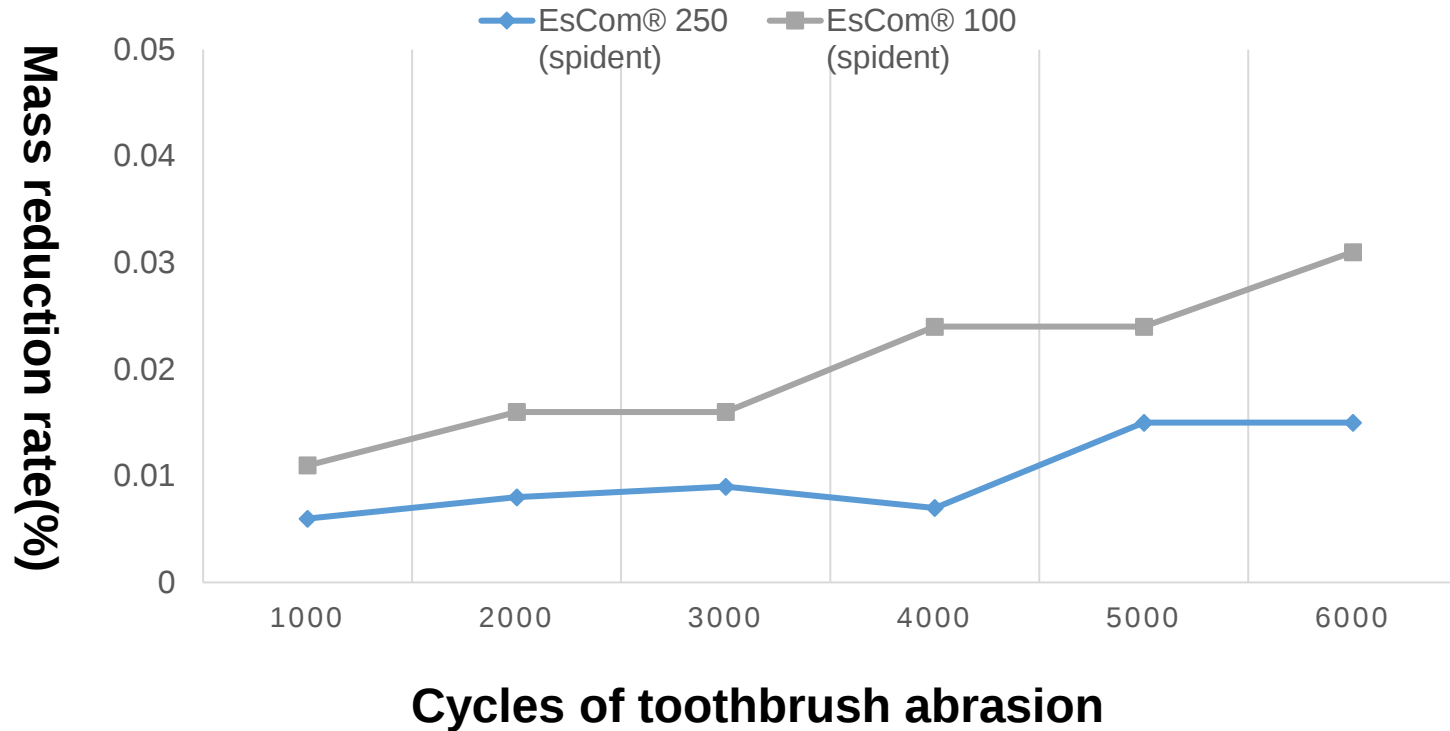
After wearing



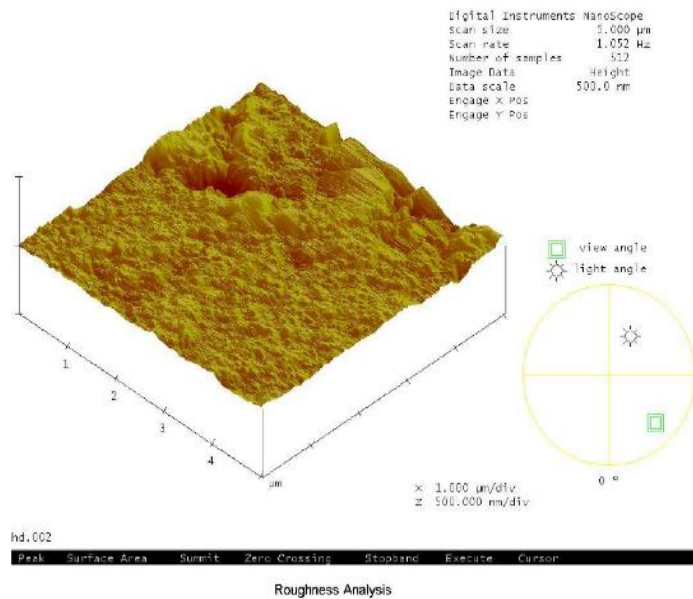
Large wear Volume

Small wear Volume

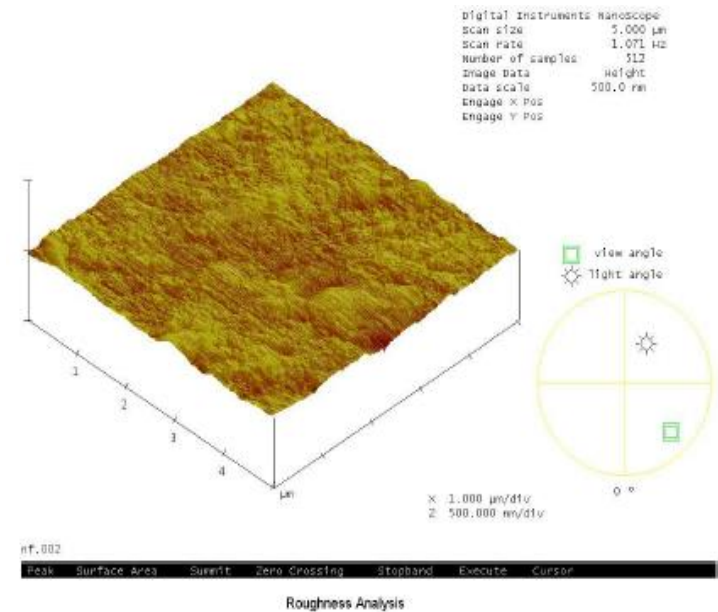
Toothbrush Abrasion



3차원 표면측정 (Atomic Force Microscopy)



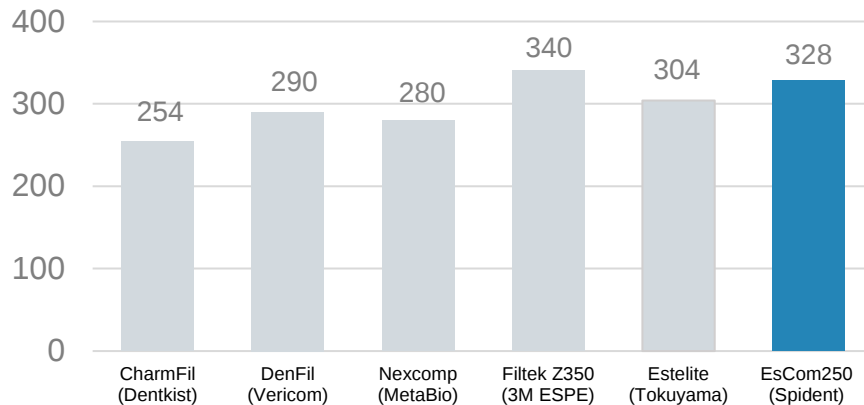
EsCom100



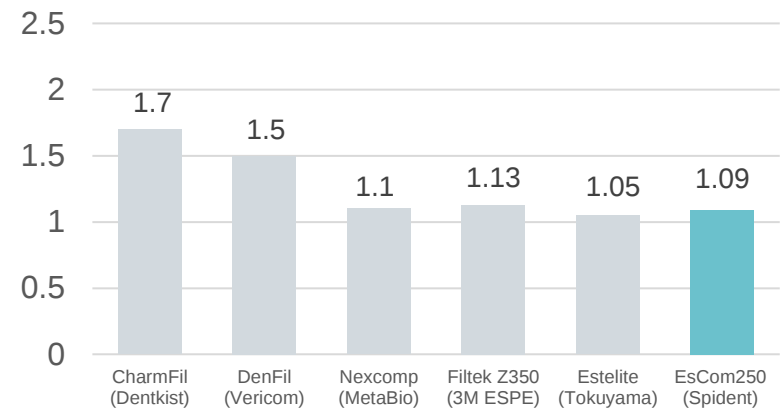
EsCom250

Comparison with competitor's Product

Compressive Strength(MPa)



20 s Light cure Shrinkage(%)



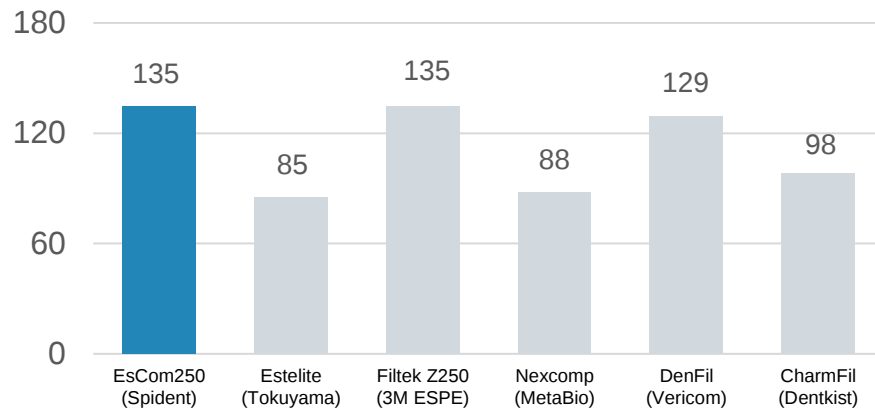
* Source Spident R&D center

• **International test standards** - ISO 9917-1 : 2007(E); 8.3 – Compressive strength ,
ISO 4049:2019; 7.11 – Flexural strength, ISO 4049 : 2019; 7.9 – Sensitivity to light

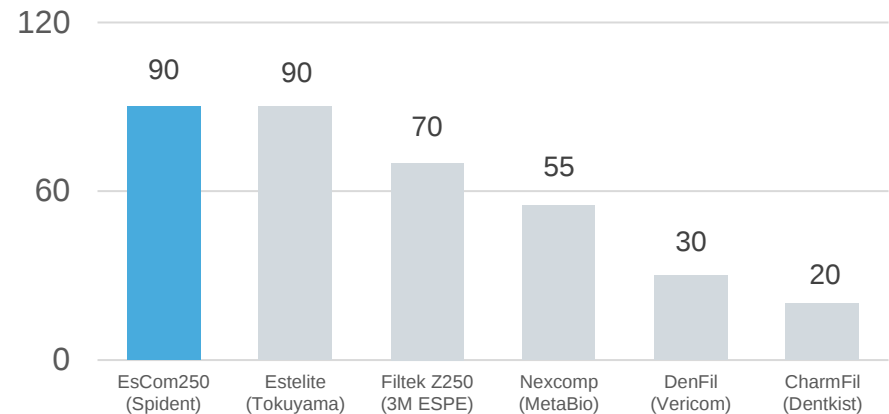
* **measuring instrument** Compressive strength- universal testing machine Shrinkage - R&B Linometer RB3o8

Comparison with competitor's Product

Flexural Strength (MPa)



Light Sensitivity
(under ambient light 10,000lx)



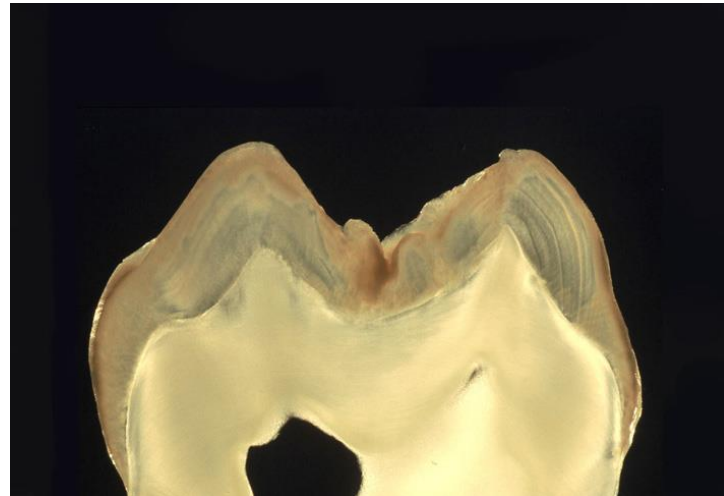
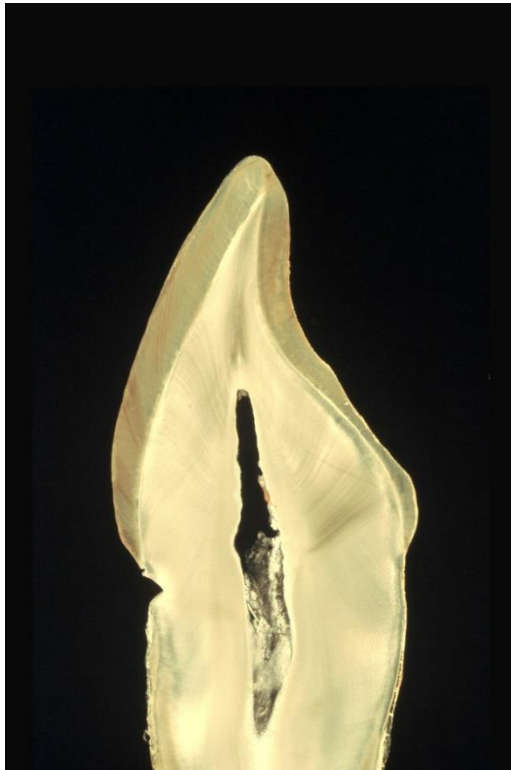
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* **measuring instrument** Compressive strength- universal testing machine Shrinkage - R&B Linometer RB3o8

Composition of natural tooth

Natural tooth are consist of some different translucency substance, Enamel, Dentin, Dentinal tube, pulp etc....



Composition of natural tooth

- To copy influence of enamel on aesthetics
 - Enamel gives “life” to the tooth appearance
 - Main contributor to the value of the tooth
 - Influence depends upon the thickness
 - Enamel changes over time
 - Becomes thinner
 - More translucent
 - Decrease in value from high (whiter) to low (darker)
 - To match these changes, different
 - Translucencies
 - Values are needed

EsCom 250

To reproduce the natural tooth, EsCom250 have 3 types of shade, Opaque dentin, Dentin and Enamel.



Opaque dentin
(AO2)



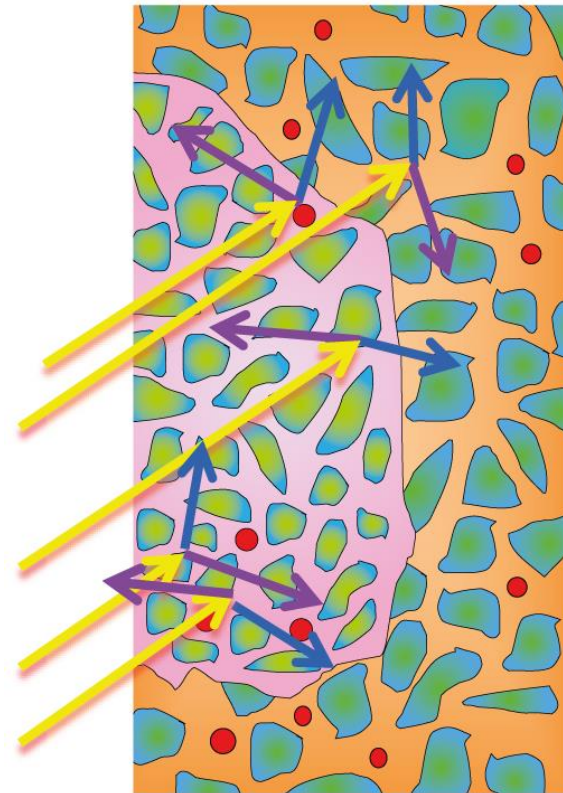
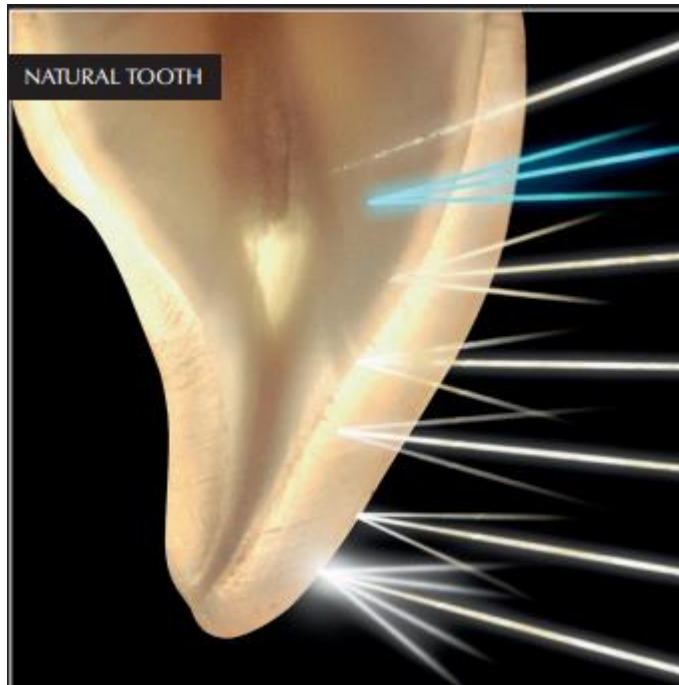
Dentin
(A2)



Enamel
(TW)

Natural Teeth Shade Matching

EsCom 250

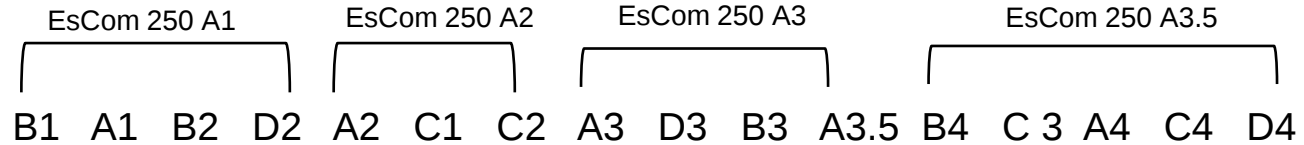


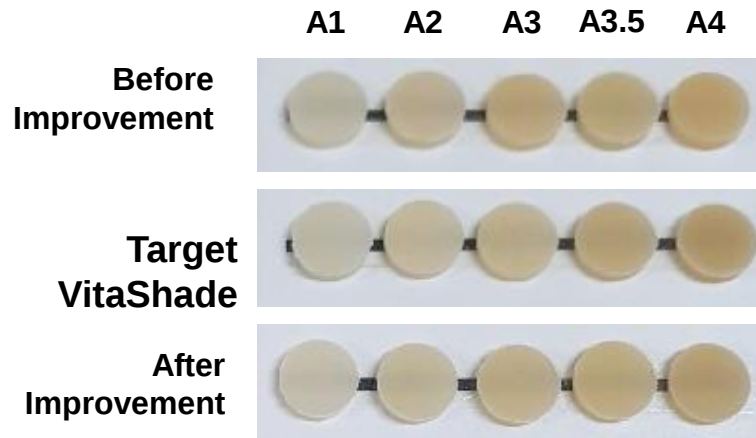
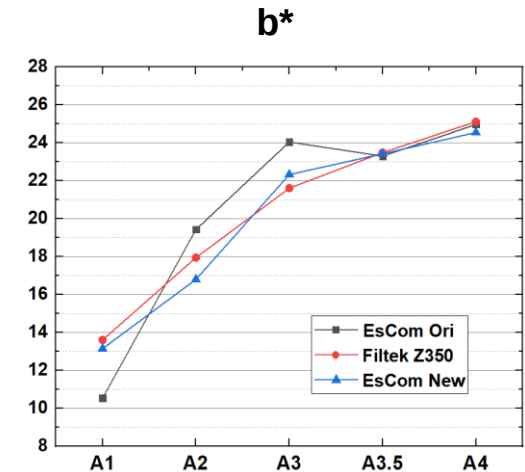
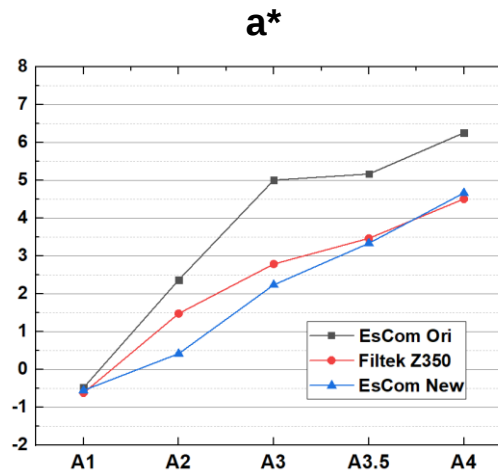
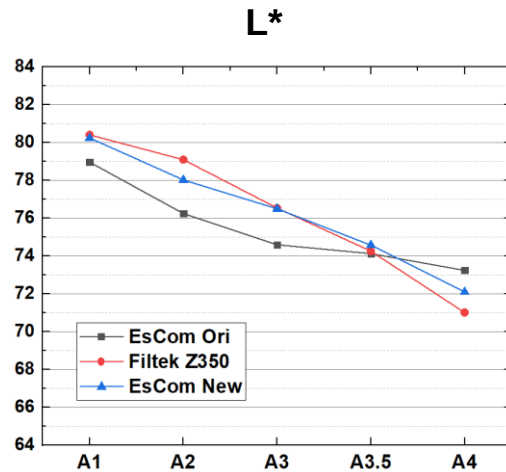
EsCom[®] 250 Light-cured restorative hybrid composite resin

Product Description

Indication for Use

Physical Properties





ΔE	A1	A2	A3	A3.5	A4
Before Impro	3.39	3.33	3.83	1.72	2.84
After Impro	0.48	1.78	0.91	0.35	1.24

ΔE value from Filtek Z350

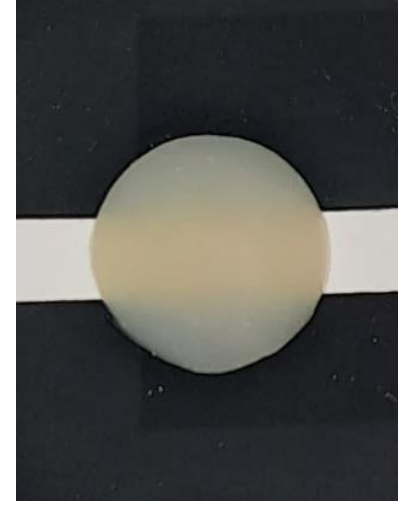
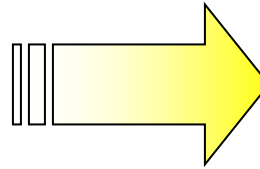
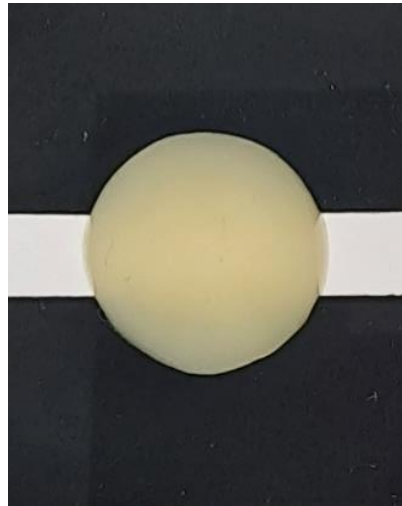
- **L*** : Black/White, **a*** : Red/Green, **b*** : Yellow/Blue
- **L***, **a***, **b*** value Adjustment and trending
- Securing similar shades for visual inspection within **ΔE 3.0 (KS P ISO TR 28642:2016)**

Minimum color change before and after Light Cure

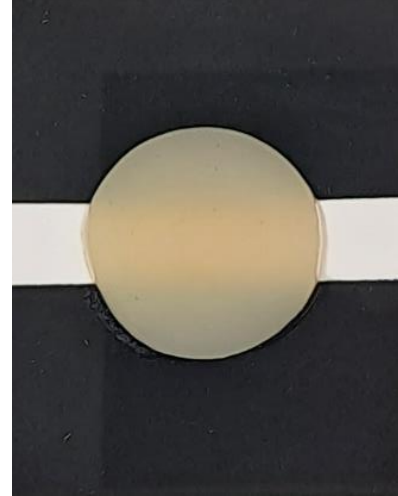
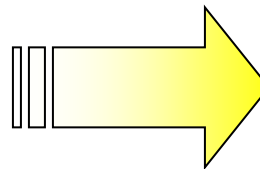
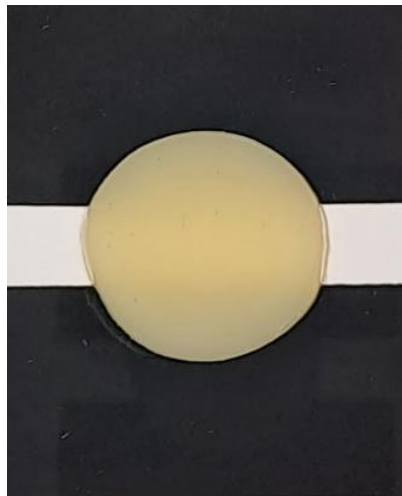
Before Light Cure

After Light Cure

EsCom
100
A2

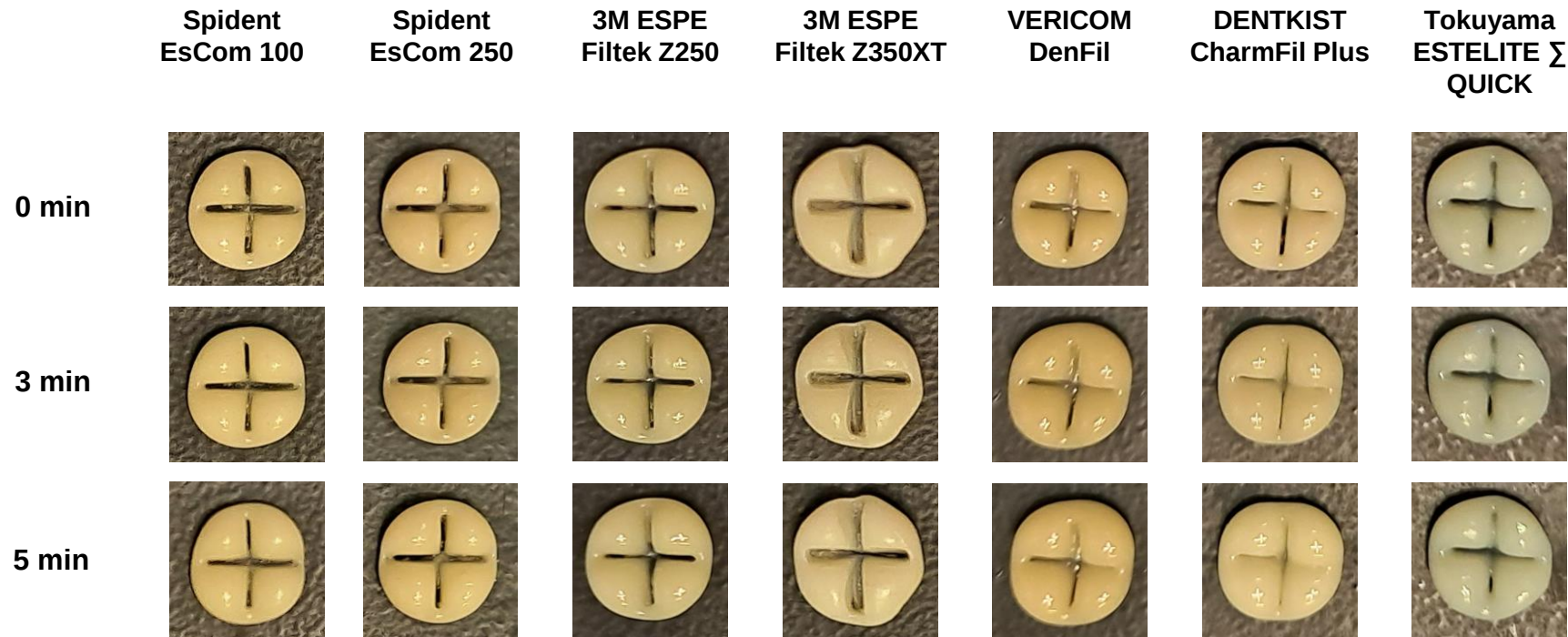


EsCom
250
A2



Shape retention

Paste shapes comparison between before and after 3, 5 min in 37 deg C



⇒ EsCom250 keeps the shape like Filtek Z250 and Z350 besides CharmFil Plus and DenFil collapses. Estelite Σ Quick collapses a little bit.

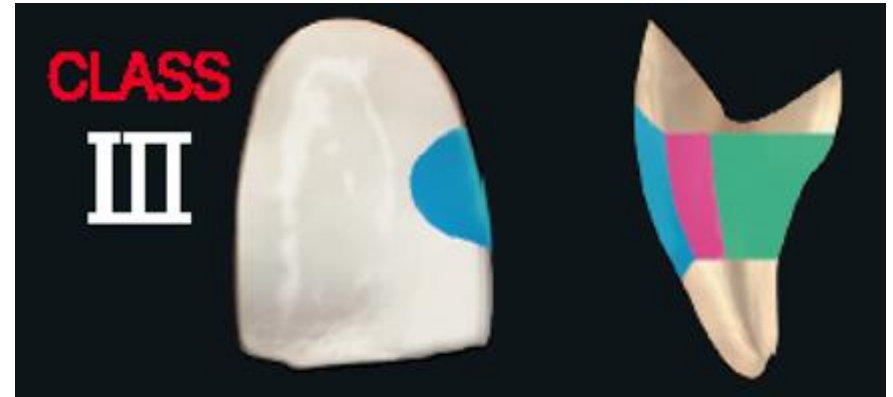
Shade

EsCom[®] 250

EsCom250[®] Shade Guide



13 Shades



Opaque Shade



Dentin Shade



Enamel Shade



Clinical application case

Case1. anterior teeth diastema I #11 #12



Daseul Jung(Jung. J.K Dental Clinic)

Opaque Shade



Dentin Shade



Enamel Shade



Clinical application case

Case2. anterior teeth restoration I #11 (class III)



Daseul Jung(Jung. J.K Dental Clinic)

Opaque Shade



Dentin Shade



Enamel Shade



Clinical application case

Case3. anterior teeth restoration #31,32,33,34 (classV)

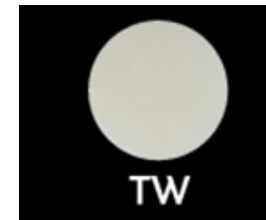




Posterior Dentin Shade



Posterior Enamel Shade



Clinical application case

Case4. posterior direct resin filling #36,37 (class I & II)



Prof. DuckSoo Kim(Kyunghee Univ.)

Opaque Shade



Dentin Shade



Enamel Shade



Clinical application case

Case5. posterior direct resin filling I #27 (class II)



Prof. DuckSoo Kim(Kyunghee Univ.)

Dentin Shade



Enamel Shade



Clinical application case

Case6. posterior direct resin filling #36,37 (class I & II)



Before Treatment



After Prep



Enamel Etching



Escom A3 Apply



After Treatment



We Strongly Recommend EsCom250

EsCom[®] 250 is....

Excellent Esthetic

- Color adaptability for natural teeth

Excellent Physical Properties

- Sufficient compressive strength
- Low shrinkage of light curing
- Excellent wear property

Good Handling Property

Thank you for Attention!

